9th 10th Chemistry Solved MCQs for SST BIO/Chem

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Chemistry SST / Bio / Chemistry can be separated by physical means, Chemistry (a) Mixture (b) Compound (c) Solution For Class 9th & 10th (d) Nit 19. Mixture has (a) 3 (b) 2 1 (d) No types 1. Atoms are made of sub 10. Which one is an example of heterogeneous misteres! (b) Molecules (a) Atoms (d) Atomic particles (a) lee cream (b) Concrete (c) Charges (c) Both a & b revolves in orbit around nucleus. (d) Nil (b) Proton 21. Salt & Water is a (a) Electron misture. (d) Nil (a) Hemogeneous (e) Neutrons (b) Heterogeneous 3. Electrons carry charge. (c) It is not mixture (d) Nil which occupies space and have men. (b) -(a) + (d) Double Positive (c) Neutral (a) Matter (b) Atom 4. Protons carry charge. (c) Molecule (d) All of above 23. The quantity of matter in a body is called (a) + (b) -(c) No (d) Neutral (a) Mass (b) Weight 5. Neutrons have (c) Atom charge. (a) + (b) -24. The period of Alchemists extends from *(c) No (d) Nil (a) \$00 to 1800 (b) 600 to 1660 6. Atom as a whole is (c) 900 to 1900 (d) 700 to 1700 (2) + (b) -25. At chemist invented all except: (d) Neutral (c) No (a) Beakers 7. The number of proton in an atom is called (b) Spirit lamp (c) Funnels (d) Retorts (b) Formula (a) Molecular 26. The branch of chemistry which deals with qualitative & (d) Molar (c) Atomic quantitative analysis of matter is: 8. The atomic number is represented by (a) Analytical (b) Nuclear (c) Biochemistry (d) Organic (d) Z 27. All the things in the world are made up of 2. The atomic number of sodium is (a) Mass (b) Weight (c) Matter(d) None of these (3) 9 is an example of substance. (c) 11 (d) 12(a) Carbon (b) Hydrogen 10. Number of protons + neutrons is: (c) Oxygen (d) Water (b) Mass numbers (a) Atomic mass is a pure substance that can be broken down (d) Nil (c) Both (a) Matter (b) Element 11. There are elements found till now. (d) Misture (c) Mass (a) 120 (b) 11# 30. The dead remains of animals are converted into (c) 119 (d) 117 (a) Hydrocarbons (b) Waste elements naturally occurring. (d) Nil (c) Does not change (a) 92 (b) 118 31. Mass no is represented by: (b) B (a) A 13. Elements are represented by chemical (c) C (d) D (a) Abbreviation (b) Unit times bervier that 32. One carbon is (c) Symbols (d) It can be represented hydrogen. 14. The symbol of sodium is: (a) 12 (b) 13 (a) Sa (b) Na (c) Pa (d) Ca (d) 15 (c) 14 15.A is a pure substance is made up of two or more clements. 33. An ion is a charged particle: (b) False (a) True (a) Mixture (b) Element (d) Never (c) In some conditions (c) Solumin (d) Compound of electrons. 34. Positive ions hare formed by can be decomposed into simpler substances. (b) Loss (a) Gain (a) Compound (b) Element (d) Bonding (c) Sharing (c) Solution (d) Mixture 35. Na - Na" + e', what type of ion it is: 17. The formula of benzene is (b) Negative (a) Positive (b) C,H4 (a) C.H.O. (d) Charged (c) Neutral (d) Nil. (c) CuHz KALEEM SERIES

ST / Bio / Chemist	solid form.	197 64	Chemistr
9. Electrolyte is	(b) Sometimes in	197. Silver is a	
(a) in	(d) Always in	(a) Pure	metal,
(a) in (it) Nextrin (it) Nextrin (it) Films are conted by detector	special chemical known as	(c) None	(b) Noble
a films detector	E	198. All are noble metals exce	(d) All
(a) Photographic	(b) Image	(a) Silver	The state of the s
(a) Photogram	(d) Both	(c) Hydrogen	(b) Gold
(c) Nil	rofC =	199. Gold was used for	(d) Platinum
(c) Nil (CO; the exidation number	(b) +2	199. Gold was used for utensi	ls as early as flc.
(a) **	(d) +4	(c) 3606	1b1 3500
(c) +3 Metals are covered by us	iner	100000000000000000000000000000000000000	(d) 3756
and the state of the state of the	THE DESCRIPTION OF THE PERSON	(a) Pure-	(d) 1756 fonegative in nature,
The state of the s	170 GANGER OFFE THE	CASTRACT PRODUCT	(b) Noble-
	(d) None	(c) Non-	4.41.424
(c) Electronists 3. Copper extracted from i	s are is% pure.	101, are important en	mponent of atmosphere.
(a) 98%	(b) 99%	A CONTRACTOR OF THE CONTRACTOR	4D3 Patterness
(1) 70.0	(d) Nil	(c) Helium	(d) Both & & b
(c) 95%	part of earth on which	202. Reversible reaction is repo	resented by:
Metals form a	part of earth on which	Contract of the Contract of th	(b) 1
ne live.	(IN Law	(c)	(d) =
(a) Smaller	(b) Larger	203. 2NQ ₂ = N ₃₍₂₎ + O ₃₍₂₎ is	reaction.
(a) Medium	(d) Nil	(a) Reversible	(b) Irreversible
5. The earth is made up of	% of aluminum.	(c) Products	(d) Nil
(a) 6	(b) 7	204. The unit of K, is,	
(c) 8	(d) 9	(c) No unit	(b) dm ⁴
16. The earth is made up of		205 The second second	(d) Nil
(2) 4	(b) 5	205. The second condition for a	equilibrium is calledmethod
	The second secon	(c) Simple	(b) Flow
(c) 6	(d) 7	206. An equilibrium establishe	(d) Complex
57. The earth is made up of	N. C. T. S. C. S.	becomebacks	s when rate of forward reaction
(s) 4	(b) 5	C. C	CHARLES CONTRACTOR
(c) 6	(d) 7	(a) =	(b) >
188. The core of the earth is	than crust.	(c) <	(d) A
(a) Lighter	(b) Heavier	207. He reacts with le and form	s 2HI, is aresettion.
(c) Both	(d) Nil	(a) Reversible	(b) Irreversible
189. Es is symbol of:	135	(c) Forward 208. Law of mass action was pr	(d) Backward
(a) Erbium	(b) Einsteinium	(a) Goldberg	
(c) Europium	(d) Fermium	(c) Both a & b	(b) Wange (d) John
190. The core of the earth is	mostly made from	209. Law of mass action was pr	(d) Jens
(a) Nickel	(b) Iron	(a) 1884	(b) 1874
(c) = & b	(d) Copper	(c) 1864	(d) \$565
191. Osygen is	Con marginal	210. Reversible reactions	go to completion.
(a) Metals	(b) Non-metals	(a) Goes	(b) Do not
(c) Gas	CALL B. A.	(c) Always	(d) Sometimes
132. Which one of the follow	ving belongs to Noble Gases?	211. Reversible reactions are	
(x) O	one county to route cases:	(a) Very fast	(b) Fast
In Ne	(b) F	(c) Slow	(3) Nil
193.Hydrogen is a	(d) Nil	212. Irreversible reaction goes t	0
(a) Metal		(a) End	(b) Completion (d) Nil
(c) Metalloids	(b) Non metal	(c) Final 213. Irreversible reaction is tep	
194 Potassium	(d) Nil	the control of the co	(b) -
194 Potassium's atomic no	is;	(a) → (c) ≈	(d)
(t) 19	(b) 18	214. does not occur in it	reservible reactions.
195	(d) 20	(a) Union	(b) Intersection
14.4	n in wires.	(c) Equilibrium	(d) None of these
	(b) Silver	215 Liquid Care gas, is a	equilibrium.
196 Cold	(d) Nil	(a) Chemical	(b) Harmonic (d) Nil
186. Gold can only be disse (a) Acids	slved by:	(c) Dynamic	
(a) Acids	(b) Bases	216. Law of mass action was pro	(b) 2
(t) Aqua Regia	(d) Nil	(a) 1	(4) 4
453	VIII.	(c) 3	ALEEM SERIES

- (a) Structure of atom*
- (b) Size of atom
- (c) Mass of atom
- (d) Reactivity of atom
- Thomson, 3.3. Goldstein, 14. Rutherford and Bohr proved that the atom is:
 - (b) Indivisible (a) Divisible *
 - (d) Unstable (c) Stable
- Who discovered protons? 15.
 - (a) Goldstein* (b) J.J. Thomson
 - (c) Bohr
- (d) John Dalton
- 16. electrons were In 1897. discovered by:
 - (a) Rutherford (b) J.J. Thomson*
 - (c) Newton (d) Bohr
- 17. According to plum pudding model, an atom is solid structure of positive charge with particles stuck inside it.
 - (a) Positive
- (b) Negative*
- (c) Free
- (d) Neutral
- 18. The rays which are emitted by cathode in a discharge tube when high voltage current is passed through it at a low pressure are called:
 - (a) Anode rays
 - (b) Canal rays
 - (c) Cathode rays*
 - (d) Neutrons
- 19. Which of the following element has no neutron in its nucleus?
 - (a) Oxygen
- (b) Nitrogen
- (c) Carbon
- (d) Hydrogen*
- According 20. to Rutherford's experiment, most space of an atom is empty because most particles the gold foll undeflected.
 - (a) Passed through*
 - (b) Settled in
 - (c) Bounced back
 - (d) Turned obliquely
- According to Bohr, energy of an 21. electron is:
 - (a) Continuous (b) Quantized *
 - (c) Increased (d) Unchanged
- When an electron jumps from a 22.

- lower to a higher orbit, it
- (a) Radiates

23.

- (b) Decreases
- (c) Absorbs*
- (d) Loses What Is value of Planck constant?
- (a) 6.36×10⁻³¹Js(b) 6.63×10⁻³¹Js,
- (c) 6.11×10⁻²⁸Js(d) 6.46×10⁻¹³Js
- According to Bohr, spectrum of as 24.
 - (a) Line spectrum *
 - (b) Broken spectrum
 - Continuous spectrum (c)
 - (d) Fixed spectrum
- The angular momentum of an 25. electron is given by the equation:
 - $mvr = nh/2\pi * (b) \frac{2\pi}{mvr nh}$
 - (c) mvr = 27/nh (d) mvr = nh = 2x
- Which letter is used to represent 26. 1st energy level which is closest to the nucleus?
 - (a) K#
- (b) L
- (c) M
- (d) N
- Which alphabets are used to 27. represent sub shells?
 - (a) a,b,c,d
- . (b) s,p,d,f*
- (c) g,h,l,j
- (d) w,x,y,z
- 28. Maximum capacity of a shell to accommodate electrons is given by the formula:
 - (a) 2n
- (b) n²
- (c) 2n²*
- (d) 3n2
- 29. The atomic number of oxygen is 8. What will be its electronic configuration?
 - (a) 1s2, 2s2, 2p1
 - 1s2, 2s2, 2p2 (b)
 - (c) 1s2, 2s2, 2p4 *
 - 1s2, 2s2, 2p3
- An electron first fills 2p orbital 30. before 3s orbital because 2p orbital has:
 - (a) Higher energy level
 - (b) Lower energy level*
 - (c) More number of electrons
 - (d) Greater distance from nucleus
- An element has 5 electrons in M 31.

est/Bio/Chemistry which of the following metals	Chemistry				
which of the following metal	(h) Covalent				
	(c) Coordinate covalent				
37- floats on Water (b) Calcium	(d) Metallic				
(a) Ion (b) Calculum (c) Sodium* (d) Magnesium	49. Purity of gold is shown by:				
the following is ton	(a) Carats* (b) Ounces				
	(c) Pounds (d) Grams				
There is a second to the secon	50. Which non metal is found in the				
(c) Gold (d) Silver					
Tale Of Life	crust?				
SY Instrought	0.00 (A) (C) (A) (A) (A) (A) (A) (A) (A) (A) (A) (A				
יין קטומחטו (בין ייון	(c) Nitrogen (d) Oxygen *				
(c) lodine* (d) Carbon	IMPORTANT TERMINOLOGY				
	IMPORTANT TERMINOLOGY				
and with blide acres	A				
(a) Iodine* (b) Sodium	917				
potassium (d) Calcium	Acceleration: Rate of change of velocity				
nenelty of calcium is:	with time.				
(a) 0.980cm (b) 1.74gcm	Artificial satellites: Man made objects				
(a) 1.550cm ⁻³ * (d) 1.60gcm ⁻³	moving in fixed circular orbits around the				
a war agint of magnesium is:	Earth.				
(a) 880°C (b) 1484°C	Atomic Physics: The branch of Physics that				
(d) 1090°C*	deals with the study of the structure and				
to telement to 11th	properties of atoms.				
group?	Avis of rotation: A straight line passing				
(a) Gold* (b) Zinc	through the points of a rotating rigid body				
(c) Chrmium (d) Borium	while the other points of the body move in				
4. The stability of hydrides is in the	circles about the axis.				
order:	В				
(a) HI> HCL> HBr> HF	Base quantity: A quantity, which can be				
(b) HI> HBr> HCI> HF	expressed independently without the				
(c) HF> HCI> HBr> HI*	reference of any other quantity.				
(d) HBr> HCI> HI> HF	Base units The units that describe base				
5. %age of carbon in human body is:	quantities.				
(a) 65% (b) 17%*	Buoyant force: The force acting on an				
	object due to buoyancy of a liquid.				
	object due to adoyancy or any				
ni nalogens are:					
(a) Reducing agents	Centre of gravity: The point of a boay				
(b) Oxidizing agents*	where its weight dels.				
(c) Metals	a malet where an applied				
7. Semi-metals	force causes the system to move without				
Flourine reacts with water:					
(a) In sunlight	Contributed force: Centripetal reaction.				
(b) At high temperature	Centripetal acceleration: Acceleration				
in dark and cold state+	produced by the centripetal force.				
Al room temperature	produced by the central which keeps				
to and sailed	Centripetal force: The force, which keeps				
- Contract C	an object to move in a circular path.				
(a) Ionic*	OPPLIES				

Circular motion: Motion of a body along a circular path

Coefficient of linear expansion: Change in unit length caused by unit kelvin change in temperature.

Coefficient of volume expansion: Change in unit volume caused by unit kelvin change in remperature.

Components of a force: Such forces when added give the resultant force.

Conduction: Transfer of heat due to interaction of electrons or molecules.

Couple: When two equal and unlike parallel forces act at different points of a body, they constitute a couple.

D

Deceleration: Negative acceleration.

Density: Mass per unit volume.

Derived quantity: Such quantity which is expressed with reference to base quantities.

Derived units: The units used to measure derived quantities.

Displacement: The shortest distance between two points.

Distance: Length of a path between two points.

Dynamics: Study of motion of bodie under the action of forces.

E

Efficiency: Ratio of output and input.

Effort arm: The intermediate distance between fulcrum and effort.

Effort moment: Product of effort and effort arm.

Effort: Force applied on the machine.

Elastic potential energy: Energy of a compressed or stretched spring.

Electromagnetism: The branch of Physics that deals with the study of the charges at rest and in motion, their effects and their relationship with magnetism.

Energy: Ability of a body to do work.

Equilibrium: A state where acceleration of a body is zero.

Evaporation: The changing of a liquid into vapours from the surface of the liquid without heating it.

F

Field force: The gravitational pull of the Earth acting on the body whether the body is in contact with the Earth or not.

Force of gravitation: The force due to which everybody of the universe attracts every other body.

Force: The agent that changes or tends to change the state of a body.

Friction: The force of resistance against the relative motion between two surfaces.

Fulcrum: The point around which lever revolves.

G

Geophysics: The branch of Physics that deals with the study of the internal structure of the Earth and tectonic plate motions etc.

Gravitational acceleration: Acceleration due to gravity of the Earth

Gravitational field strength: The gravitational force per unit mass.

Gravitational field: The field in a region in space in which a particle would experience a gravitational force.

Gravitational force: Mutual force of attraction between the objects.

Gravitational potential energy: Energy of a body due to its position in the gravitational field.

н

Heat capacity: The quantity of thermal energy absorbed by a body for increase in its temperature.

Heat: The branch of Physics that deals with the nature of heat, modes of transfer of heat and effects of heat.

Heat: The form of energy, which is transferred from one place to another because of temperature difference.

Horizontal component: The component of a force which is along horizontal Or x direction.

Chemistry

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Inertia: The characteristic of a body due to which it resists against any change in its state of rest or motion.

Input: A work, which is done on the machine Internal energy: The sum of K. E. and P. E. associated with the atoms, molecules and particles of a body.

Isolated system: A group of interacting bodies on which no force is acting.

Joule: The amount of work done when a force of one newton displaces a body through one metre in the direction of force.

Kllowatt-hour: Work done in one hour at a rate of one kilowatt.

Kinematics: Study of motion of bodies without taking into consideration the mass and forces.

Kinetic energy: Energy of a body due to its motion.

Kinetic friction: Friction during motion.

Latent heat of fusion: The quantity of heat required to change one kilogram of a solid substance to liquid state during which its temperature remains constant.

Latent heat of vapourization: The quantity of heat required to change the state of one kilogram of a liquid to vapour or gaseous state during which its temperature remains constant.

Lever: A strong bar revolving around some point.

Light year: The unit of distance for celestial bodies equal to 9. 46 x 1014 m.

Light: The branch of Physics that deals with the physical aspects of light and its properties; working and uses of optical instruments.

Like parallel forces: Forces acting along parallel lines in the same direction.

Limiting friction: The maximum value of static friction.

Line of action of a force: The line along which a force acts.

Linear motion: The motion of a body along a straight line.

Load arm: The intermediate distance between fulcrum and load.

Load moment: Product of load and load

Load: Resistance or lifted up weight.

M

Mass: The characteristic of a body, which determines the acceleration produced by the application of a force.

Mechanical advantage: Ratio of load and effort.

Mechanics: The branch of Physics that deals with the motion of objects, causes and effects of motion.

Moment arm: The perpendicular distance between the axis of rotation and the line of action of the force.

Momentum: The product of mass and velocity of a body.

Motion: If a body changes its position with respect to its surroundings.

Negative vector: A vector, which has the same magnitude but opposite direction of another vector.

Neutral equilibrium: The condition of a body, in which its centre of gravity neither rises nor becomes lower of its original position after being disturbed.

Nuclear physics: The branch of Physics that deals with the properties and behaviour of nuclei and the particles within the nuclei.

Orbital velocity: The critical velocity of a satellite in order to keep on moving around the Earth at a specific height.

Output: A work, which is done by the machine.

Parallel force: The forces which are parallel to each other.

Chemistry

Perpendicular components: The components of a force which are mutually perpendicular to each other.

Physical quantities: All measureable quantities.

Physics: The branch of Science, which explains the properties of matter and energy.

Plasma physics: The branch of Physics that deals with the study of production, properties of the ionic state of matter - the fourth state of matter.

Position: Location of a place or a point with respect to some reference point.

Potential energy: The energy possessed by a body due to its position.

Power: Rate of doing work.

Prefixes: The words or letters added before a unit and stand for the multiples or submultiples of that unit.

Pressure: The force acting normally per unit area.

R

Radiation: Transfer of heat by Infra red radiations requiring no medium for their transmission.

Random motion: Motion without any consideration of time and direction.

Rate of flow of heat: The amount of heat that flows in unit time.

Resolution of a force: Splitting up of a force into its components.

Rest: If a body does not change its position with respect to its surroundings.

Resultant force: Such a force, which shows the combined effect of two or more forces.

Retardation: Negative acceleration.

Rolling friction: The friction produced during the motion of one body over the other with the help of wheels.

Rotatory motion: The motion in which a body moves around an axis passing through it.

S

Scalar: A Physical quantity which is completely described by its magnitude only.

Scientific method: Logical applications of arguments that explain a certain phenomenon.

Scientific notation: The numbers written as power or prefix of ten in which there is only one non-zero number before the decimal

Significant figures: In a measurement, the correctly known digits and the first doubtful digit

Simple machine: A thing, which helps in doing work more easily.

Sliding friction: The friction between two surfaces sliding against each other.

Sound: The branch of Physics that deals with the physical aspects of sound waves their production, properties and applications.

Specific heat capacity: The quantity of heat, which changes the temperature of one kilogramme mass by 1 K.

Speed: Distance covered by a body in unit time.

Stability: The property of a body which does not undergo any change without the application of an external agency.

Stable equilibrium: The condition of a body in which it comes to its original position after being disturbed.

Static friction: The force of friction arising due to an applied external force before motion.

Strain: The change in the shape of an object under the action of an external force.

Stress: Force acting on unit area of an object.

Surface tension: The force acting along the surface of a liquid.

T

Temperature: The degree of hotness or coldness of a body.

Tensile strain: Change in length per unit original length.

Tension: The force acting along a string.

Thermal conductivity: The rate of flow of heat across the opposite faces of a metre cube maintained at a temperature difference of 1 K.

SST/Bio/Chemistry

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Chemistry

thermal equilibrium: The property of a thermal when all parts of the system have the system when the along with its surrounding.

Thermometer: A device used to measure temperature.

thermometry: Art of measurement of

, lemperature. Torque: The capacity of a force to rotate a

franslatory motion: The motion of a body body. when it moves along a line without rotation.

Trigonometric ratios: The ratios of the ides of a right-angled triangle.

uniform acceleration: Equal changes in velocity in equal intervals of time.

uniform speed: Equal distances covered by a body in equal Intervals of time.

uniform velocity: Equal changes in displacement in equal intervals of time,

Unlike parallel forces: Forces that are parallel but have direction opposite to each other.

Unstable equilibrium: The condition of a body in which it does not come to its original position after being disturbed.

Vector: A physical quantity which is described completely by magnitude and direction.

Velocity: Rate of change of displacement.

Vibratory motion: Zig-zag motion of the molecules of gases and liquids.

Watt: The power of a body if it does work at the rate of one joule per second.

Weight: Force of gravitation acting on a

Work: The displacement. product of force and

Young's modulus: The ratio of stress to

CHEMICAL EQUILIBRIUM IMPORTANT POINTS

- Reversible reactions are those in which products recombine to form reactants. These reactions never complete. They proceed in both ways: l. e., forward and reverse.
- Dynamic equilibrium state is one at which forward and reverse reactions proceed at equal rate but in opposite directions so that overall reaction does not stop.
- Equilibrium constant K, is a ratio of × the product of concentration of products raised to the power of coefficients to the product of concentration of reactants raised to the power of coefficients as expressed in the balanced chemical equation.
- Equilibrium constant has no units when number of moles of reactants and products are same.
- By knowing the value of equilibrium constants, the extent of a reaction can be predicted.
- Reactions having large Ke value, proceed almost to completion.
- Reactions having small magnitude of Ke indicates that equilibrium state has established consuming small amount of reactants. Therefore, they never go to completion.
- Reactions having moderate magnitude comparable amounts reactants and products at equilibrium state.

MCQ5

- The characteristics of reversible 1. reactions are the following except:
 - (a) products never recombine to form reactants*
 - (b) they never complete
 - (c) they proceed in both ways
 - (d) they have a double arrow between reactants and products
- In the lime kiln, the reaction 2. $CaCO_{3(s)} \longrightarrow CaO_{(s)} + CO_{2(g)}$ goes to completion because

	177-07	were and the state of	100 7 PM 10			DOD	Towns of the last		Chemistr
	(a)	salt and water	2FA			(a)		(b)	BF,
	(b)	salt and gas				(c)	H.	(d)	
	(c)	salt and an a			59,	Acc	ording to	the Lew	
الاعتداد	(d)	salt and a ba		man district					ch can
50.		conjugate a				(a)	donate a p	roton	
	(a)	PO ₄ 3-	(b)	H ₂ PO ₄ 2-		(b)	donate a p	air of elec	tron
	(c)	H_PO. *	(d)	H ₃ PO ₄		(c)	accept a pr		
51		t is the	pOH	of 0.02M		(d)		ir of elect	ron *
		H) ₂ 7	ALV:	* Tana	60.	Giv	en K _w = [H.] [OH] = 1.0 ,
	(a)	1.698	(b)	1.397*		W 17	ar Za L		
200	(c)	12.31	(d)	12.61		WIN	at is the co	ncentrat	ion of H' in
52.		h one of the		ing species			1 × 10° m		
10		t amphoteri		1990					-
	(a)	H ₂ O	(b)	NH ₃			1 × 10' mo		
F7:	(c)	HCO3	(d)	SO42-#		171	1 × 10 ⁻¹⁴ m		
53.	ine	product of tion is called	Lewis	acid-base		(a)	1 × 1014 mg	ol dm-	
		reen the add			1	OD	GANIC C	LICHTO	TOV
	(a)	ionic	acc spe	rette ta.	-		THE RESERVE OF THE PARTY OF THE		
	(b)	covalent			- 25	7	MPORTAN	I POIN	TS
	100	metallic			*	Stro	ing acids	or ba	ses ionize
	(d)	coordinate co	nicolonia		2000		pletely in w		
54.			HOLDER BUT TO STATE			and	bases lonize	partially.	. CIVELIAN COMPANY
	 The water of crystallization is responsible for the 	*	 According to Arrhenius concept, acids produce H⁺ ions in aqueous solution 	ncept, acids					
	melting points of crystals			[1]					
	(b)	boiling point			n)		le bases pr		H" ions in
	(c)	shapes of cry	Control of the contro		100	aqueous solution.			
	(d)	transition po	50	vetale	*		ording to Bro		
55.				Which one	H		are proton		
JJ.		e following			10	ann	on acceptor licable to nor	, SO (NIS	concept is
	(6)	CaCl ₂ *	(b)	NaCl					
92	(c)	CaO	(d)	Na ₂ SIO ₂	*		ubstance that I as well as		
56.		ic hydroxi		Annual Control of the	l .		nature of		
-	prec	initated out	t of so	ution when	l .		ed amphoteri		
	ague	eous soo	dlum	hydroxide	*	Ácc	ording to Lev	vis conces	t: acids are
			d to fe	rric chloride		elec	tron pair acc	ceptors an	d bases are
	(FeC		I 0 0 0	201	0		tron pair don		
		1140) + 3Na		——→ Fe	*	The	product of	any Lewi	s acid base
	(OH)	xxx + 3NaClu	(q)	a les	7.5	rea	ction is a	single sp	pecie called
		ur of the pr		blue		add	uct.		
		white	(b)	1	*	**p"	scale is the	e convers	ion of very
012391	(c)	dirty green	(d)		30	CITY	all floures in	to positive	e figures of
57.	Which ion is the conjugate base of sulphuric acid?				taking the common logarithm of the small figure and multiplying it with-1	g it with-1.			
		50,2	(b)		*	pH	scale is the	negative	logarithm of
	(c)	HSO3	(d)		100	con	centration of	nyarogen	tons.
58.	Wh	ich one of vis base?	the fo	lowing is a	*	A s	ubstance hav	ing pH le	ss than 7 is having pH

eT/	Bio / Chemistry		69			
3.	more than 7 is basic. A oH 7 is called neutral.	substance of	8,	Petroleum		
	Salts are lonic compound metallic cation and non-n	is made up of netallic anion.		Petroleum is refined by: (a) destructive distillation (b) fractional distillation *		
	Different methods for the preparation of soluble and insoluble salts have been discussed. Normal salts are made up of cations of strong bases and anions of strong acids. Acidic salts are made up of cations of weak bases and anions of strong acids.			(c) simple distillation (d) dry distillation In laboratory urea was prepared by:		
				(a) Wholer + (b) Rutherford (c) Berzellius		
				(d) Daiton General formula of alkyl radical is:		
	MCQs		İ	(a) C _n H _{2n+2} (b) C _n H _{2n-2}		
Ģ	The ability of carbon form chains is called (a) isomerism	atoms to	11.	(c) C _n H _{2n+1} * (d) C _n H _{2n} Identify which one of the following compounds is a ketone.		
	(a) isomerism (b) catenation* (c) resonance			(a) (CH ₃) ₂ CHOH (b) (CH ₃) ₂ CO*		
	(d) condensation	55	*	(c) (CH ₃)₂NH		
	Coal having 90% carb is called: (a) peat	on contents	12.	(d) (CH ₃)₂CHCl The functional group -COOH is found in:		
	(b) lignite (c) anthracite*			(a) carboxylic acid * (b) aldehydes		
	(d) bituminous			(c) alcohols		
ů.	Main component of natural gas is: (a) methane * (b) propane (c) butane (d) propene		13,	(d) esters Which one of the following statements is not true about fossil		
8	The strong heating of coal in retorts in the absence of air is called			fuels? (a) they all contain carbon (b) they are renewable*		
	(a) fractional distillation (b) sublimation	97		(c) they produce pollutants when burnt		
	(c) roasting	8	14.	(d) they cause acid rain Which one of the following is the		
	(d) destructive distillation* Pitch is black residue of:			hardest coal? (a) peat		
	(a) coke (b)	coal tar*		(b) fignite		
5.	Natural pas is oso	coal gas		(c) bituminous (d) anthracite*		
	(a) carbon black* (b)	8523	15.	In which of the following groups,		
	(c) coal tar	coke coal gas	*11	oxygen is attached on both sides with carbon atoms?		
510	Which one of the follo	owing does		(a) ketone (b) ether* (c) aldehyde (d) ester		
_	(a) sugar cane * (b) (c) barley (d)	maize potatoes	16.	Carbonization process is the conversion of:		

KALEEM SERIES

44.

45.

46.

47.

48.

49.

50.

51.

52.

53.

54.

(c)

(a)

(b)

(c)

(d)

Aldehyde

fuel?

ST/Bio/Chemistry	17	Chemistry	
ST/Bio 7 Comments	7=	(a) SO ₃ gas (b) CO ₂ gas+	
(b) Water (carbon dioxide	1	(c) NO ₂ gas (d) SO ₂ gas	
	56.	PAN is the abbreviation of:	
(d) Oxygen*	12.000	(a) Poly aniline nitrate	
no hole is a produ		(b) Peroxy acetyl nitrate*	
	1	(c) Poly acetyl nitrate	
the state of the s	100	(d) Proxy acetyl nitrite	
	57.	After mesosphere, the layer of	
ter metects us it offer		atmosphere Is:	
46. (a) Infrared radiations		(a) Thermosphere*	
(o)		(b) Lithosphere	
at atanth radiations		(c) Stratosphere	
(d) Greenhouse radiations		(d) Blosphere	
	58.	Naturally, sulphur compounds are	
atmosphere of	20.	emitted in:	
(a) 18.94%	- 1	(a) Bacterial decay*	
20 0400#	-	(b) Gas exhausts	
Ozone is represented by.		(c) Industries	
(a) O. (b) U.		(d) Tanning leather	
(c) CO (a) 03 "		Decreased ozone layer wil	
Mixture of NO and NO2 ar	e 59.	Increase Infectious diseases like:	
represented by:	1	(a) Malaria* (b) Typhoid	
(a) NO. * (b) N.O	1	(c) Pneumonia (d) None	
(c) N.O. (d) NO.	60.	nue to increase in earth	
50. Ozone layer is found in:	60.	temperature due to green house	
(a) Troposphere		effect, this phenomenon is called.	
(b) Stratosphere*		(a) Global warming*	
(c) Mesosphere		(b) Global crisis	
(d) Lithosphere	1000	(c) World war	
The reparation of insoluble sol	d	(d) Rotational debt	
particles from a liquid is called.	-70	0.5-0.7	
(a) Distillation		WATER	
(b) Crystallization		IMPORTANT POINTS	
(c) Filtration *		Atmosphere is the envelope of	
(d) Evaporation	. *	Atmosphere is the envelope of different gases around the Earth.	
52. The harmful substances present	in	different gases broadle into fou	
the air are called:	*	Atmosphere is divided into four regions; troposphere, stratosphere	
(a) Contaminants	8	mesosphere and thermosphere.	
(b) Land pollutants	1.5	mesosphere and the shave Farth'	
(c) CFCs	* Troposphere is j	Troposphere is just above Earth'	
(d) Air pollutants*		SULLIGE DIE	
-activity the secondary policial.		kilometre.	
(a) H ₂ SO ₄ * (b) SO ₂	*	Stratosphere is next to tropospher and extends upto 50 km. In this and extends upto 50 km.	
54. (c) NH ₃ (d) SO ₃		region, temperature rises upward	
rain damages:	1	The state of the property of the state of th	
(a) Leaves of trees (b) a, c & d*		Management is next to stratuspite.	
te (c) Crops (d) Buildings	*	and extends up to 85 km	
Rain water is acidic because of:	11	KALEEM SERIE	

Chemistry

- (b) Long chain sulphonic acid esters
- (c) Polymeric hydrocarbons
- (d) Polymeric aldehydes
- 353. In fireworks, the green flame is produced because of:
 - (a) Mercury
- (b) Sodium
- (c) Potassium
- (d) Barium*
- 354. Firdous Al Hikmat Fe Ilmul Kemia was written
 - (a) Alberuni
 - (b) Jabir bin Haiyan
 - (c) Khalid bin Yazeed*
 - (d) Buall Sina
- 355. Ammonia was obtained from urine by
 - (a) Aljahiz
- (b) Wohler*
- (c) Jabir bin Haiyan (d) Al-Beruni
- 356. Madam Curie is famous for his work in the field of
 - (a) Biochemistry
 - (b) Nuclear chemistry *
 - (c) Analytical chemistry
 - (d) Organic chemistry
- 357. Which form of phosphorus is used in safety matches?
 - (a) White phosphorus
 - (b) Yellow phosphorus
 - (c) Red phosphorus*
 - (d) Black phosphorus
- 358. Dalton's atomic theory gave the concept of
 - (a) Valency*
- (b) Electrons
- (d) Ionization (c) Radioactivity
- 359. When radioactive rays are passed through air or any gas, they cause it to
 - (a) Ionize*
- (b) Evaporate
- (d) Boil
- 360. The elements in the first period of the periodic table are (a) Hydrogen and helium *

 - (b) Hydrogen, helium, nitrogen and oxygen
 - (c) Hydrogen, helium and carbon
 - (d) Hydrogen, nitrogen and oxygen

IMPORTANT TERMINOLOGY

Acld rain is formed by dissolving acidic air pollutants such as sulphur dioxide and nitrogen dioxide by rain water.

Acidic salts are formed by partial replacement of a replaceable H' ion of an acid by a positive metal ion.

Alkanes are the simplest hydrocarbons in which each carbon is attached through single bonds with other atoms. They have general formula CoHzneze

unsaturated hydrocarbons Atkenes are having double bonds. They have general formula CoHzon

Alkyl radicals are derivatives of alkanes. They are formed by the removal of one hydrogen atom from molecule.

an alkane

Alkynes are unsaturated hydrocarbon having a triple bond in their molecules. They have general formula CnH2n-2

Amino acids are organic compounds consisting of both amino and carboxyl groups.

Ammonical Liquor is a solution of ammonia gas in water.

Amphoteric is a substance that can behave both as an acid and as a base.

Arrhenius acid is a substance that contains hydrogen and produces H* lons in aqueous solution.

Arrhenius base is a substance that contains the hydroxyl group and produces hydroxide OH ions in aqueous solution.

Atmosphere is the envelope of different gases around the Earth. It extends continuously from the Earth's outwards without any boundary.

Basic saits are formed by the incomplete neutralization of a polyhydroxy base by an

Bronsted-Lowry base is a substance that can accept a proton from another substance.

about 85% is methane, other gases are ethane, propane and butane.

Normal salts are formed by the total replacement of ionizable H* ions of an acid by a positive metal ion or NH,* lons.

Oligosaccharides give 2 to 9 units of monosaccharides on hydrolysis

Ore is a natural deposit containing mineral of an element to be extracted.

Organic compounds are compounds of carbon and hydrogen and their derivatives.

Ozone hole is the region in which ozone layer depletes in atmosphere.

Ozone is an allotrope of oxygen. Its maximum concentration called ozone layer lies in stratosphere region about 25 to 30 km away from Earth's surface.

Permanent hardness is because of presence of sulphates and chlorides salts of calcium and magnesium.

Pesticides are dangerous organic chemicals used to kill or control pests.

Petroleum is a dark brownish or greenish black coloured viscous liquid.

pH is the negative logarithm of molar concentration of the hydrogen ions.

Pollutants are waste materials that pollute air, water or soil.

Polysaccharides are the carbohydrates consisting of hundreds to thousands of monosaccharides.

Primary pollutants are the waste or exhaust products drivenout because of combustion of fossil fuels and organic matter. Proteins are highly complicated nitrogenous compounds made up of amino acids.

R

Reduction means addition of nascent hydrogen.

Refining process is the separation of crude oll mixture into various useful products (fractions). It is carried out by a process called fractional distillation.

Reversible reactions are those in which products can recombine to form reactants. Roasting is heating of concentrated ore in a furnace in the presence of air.

Salt is defined as an ionic compound composed of a metallic cation and non

Saturated hydrocarbon is compound in which all the four valencies of carbon atoms are fully satisfied (saturated) by single bonds with other carbon atoms and hydrogen

Secondary pollutants are produced by the various reactions of primary pollutants with

Smelting is the further heating of the roasted ore, flux of sand and coke in a blast furnace in the presence of excess of air.

Soft Water is that produces good lather with

Stratosphere region covers the atmosphere from 12 to about 50 kilometres.

Strong acids and bases are those that can ionize completely.

Substitution reaction in which one or more hydrogen atoms of a saturated compound are replaced with some other atoms (like halogen).

Temporary hardness is because of presence of bicarbonates of calcium and magnesium.

Thermosphere lies beyond mesosphere. In this region temperature rises gradually.

Troposphere is just above the Earth's surface and extends upto 12 kilometres.

Unsaturated hydrocarbon are compounds in which the two carbon atoms are linked by a double or a triple bond.

Water borne diseases are caused by drinking polluted water or eating food prepared with polluted water.

Water softening is removal of hard water lons (Mg2+, Ca2+).

Weak acids and bases are those which ionize partially in water.

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